Design de Websites Responsivos Bootstrap

Bootstrap

Bootstrap

- Biblioteca de componentes front-end mais popular do mundo
- Websites responsivos (smartphones, tablets ou PCs)
- Conjunto de ferramentas de código aberto para desenvolvimento com HTML, CSS e JS

https://getbootstrap.com/



Bootstrap: Instalação

- BootstrapCDN (Content Delivery Network)
 - CSS, JavaScript e imagens do Bootstrap são carregados dos servidores e são utilizadas por mais 7.9 milhões de websites

```
<!-- Bootstrap CSS -->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css
/bootstrap.min.css" integrity="sha384-
gg0yR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQU0hcWr7x9JvoRxT2M
Zw1T" crossorigin="anonymous">
```

Download do Bootstrap para a pasta do projeto

Bootstrap: Template Inicial* (I)

```
<!doctype html>
<html lang="en">
<head>
<!-- Required meta tags -->
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-</pre>
to-fit=no">
<!--Bootstrap CSS >
 <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.</pre>
3.1/css/bootstrap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQU0hcWr7x9JvoRxT2MZw1T" crossorigin
="anonymous">
<title>Hello, world!</title>
</head>
1.1.1
```

Bootstrap: Template Inicial* (II)

```
<body>
<h1>Hello, world!</h1>
...
<!-- Optional JavaScript -->
<!--jQuery first, then Popper.js, then Bootstrap JS>
<script src="https://code.jquery.com/jquery-</pre>
3.3.1.slim.min.js" integrity="sha384-
q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin
="anonymous"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popp</pre>
er.min.js" integrity="sha384-
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin
"anonymous"></script>
<script src "https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.
         integrity "sha384-
min.is"
JiSmVgyd0p3pXB1rRibZUAYoIIy60r06VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
"anonymous"></script>
</body>
</html>
```

^{*}https://getbootstrap.com/docs/4.3/getting-started/introduction/

Bootstrap: Hello World

```
<title>Hello, world!</title>
<style>
example {
        color: white:
         background: blue;
         text-transform: uppercase;
        textalign: center;
}
</style>
</head>
<body>
<h1 class="example">Hello, world!</h1>
<h1 class="bg-primary text-white text-center text-
uppercase">Hello, world Bootstrap!
</h1>
```

HELLO, WORLD!

HELLO, WORLD BOOTSTRAP!

Bootstrap: Cores (1)

```
<h1 class="text-center">Colors</h1>
<h3>Text Colors</h3>
bootstrap colors
```

Text Colors

bootstrap colors

Bootstrap: Cores (2)

```
<h3>Background Colors</h3>
background colors
```

Background Colors background colors

background colors

Bootstrap: Tipografia (1)

```
<h3>default font-size 16px</h3>
<h3>default line-height 1.5</h3>
1rem (all p elements have margin-top 0 and margin-bottom 16px)
<h1>hello i'm 40px</h1>
<h2>hello i'm 32px</h2>
<h3>hello i'm 28px</h3>
<h4>hello i'm 24px</h4>
<h5>hello i'm 20px</h5>
<h6>hello i'm 16px</h6>
hello i'm 40px
```

default font-s default line-h all p elements have ma margin-bottom 1rem (hello i'm 4 hello i'm 32 hello i'm 28p hello i'm 24px hello i'm 20px hello i'm 16px

hello i'm 40p

Bootstrap: Tipografia (2)

```
<h1>normal text <small>small text</small></h1></h6>normal text <small>small text</small></h6>
I can highlight with <mark>marked text</mark> 
I can highlight with <code>marked text</code> 
I can highlight with <kbd>marked text</kbd>
```

normal text small to

normal text small text

I can highlight with marked text

I can highlight with marked text

I can highlight with marked text

Bootstrap: Tipografia (3)

```
<h1 class="display-1">display 1</h1>
i'm also display 1
<h1 class="display-2">display 2</h1>
<h1 class="display-3">display 3</h1>
<h1 class="display-4">display 4</h1>
```

Design de Websites Responsivos Crafia (3) Crafia (3) i'm also display display display 3 display 4

Bootstrap: Tipografia (4)

```
Lorem ipsum dolor 
Lorem ipsum dolor
Lorem ipsum dolor
                          Lorem ipsum dolor
Lorem ipsum dolor
Lorem ipsum dolor
                          Lorem ipsum dolor
Lorem ipsum dolor
Lorem ipsum dolor
                          Lorem ipsum dolor
Lorem ipsum dolor
Lorem ipsum dolor
KKKKKKKK
                           Lorem ipsum dolor
                                 Lorem ipsun
                           Lorem ipsum dolor
                           LOREM IPSUM DOLOR
                           Lorem Ipsum Dolor
                          kkkkkkkk
```

Bootstrap: Google Fonts

```
<link href="https://fonts.googleapis.com/css?family=Indie+Flower&di</pre>
splay=swap" rel="stylesheet">
<style>
            body {
                       font-family: 'Indie Flower', cursive;
</style>
 Google Fonts
                                                                         CATALOG
                                                                                            ARTICLES
                                                                                  FEATURED
                                                                                                     ABOUT
                                                                                                      ×
   We want to hear from you! Google Fonts & Icons are doing user studies. / Sign up now
                                         Type something
                                                                                                 ■ C
   Q Search fonts
                               Sentence *
   Categories *
                            Font Properties *
               Language *
 Viewing 959 of 959 font families
                                                                                         Sort by: Trending now -
 Roboto
                                                       Turret Road
 Christian Robertson (12 styles)
                                                       Dale Sattler (6 styles)
 All their equipment and
                                                       A red flare silhouetted the
```

Bootstrap: Containers

```
<!-- container acts as wrapper -->
<!-- container -->
<!-- container-fluid -->
<div class="container bg-danger">i'm simple container</div>
<div class="container-fluid bg-primary">i'm simple container-fluid
</div>
<section id="skills" class="bg-warning">
<div class="container bg-danger">i'm simple container</div>
</section>
<section id="about" class="bg-primary">
<div class="container-fluid bg-danger">i'm simple container fluid
</div>
</section>
```

i'm simple container

i'm simple container-fluid

i'm simple container

i'm simple container fluid

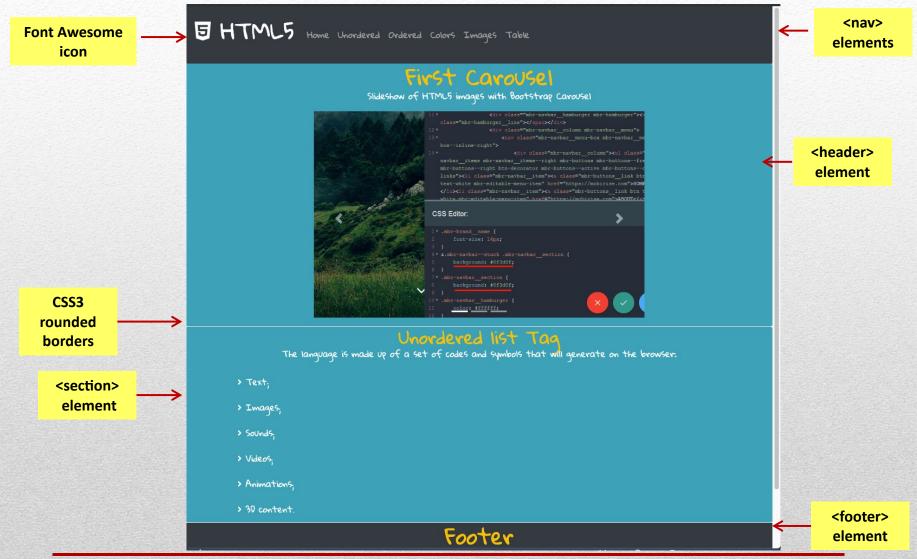
Bootstrap: Colunas

```
<div class="container">
 <div class="row">
   <div class="col bg-danger">i'm single column</div>
 </div>
</div>
<div class="container-fluid">
 <div class="row">
    <div class="col bg-info">i'm single column</div>
    <div class="col bg-warning">i'm single column</div>
 </div>
</div>
<div class="container">
 <div class "row">
   <div class="col bq-white">i'm single column</div>
   <div class "col bg-secondary">i'm single column</div>
   <div class "col bq-primary">i'm single column</div>
 </div>
</div>
```

Bootstrap: Colunas - Responsive Breakpoints

```
<div class="container">
 <div class="row">
    <div class="col-sm-6 col-md-3 col-lg-6 col-xl-3 bg-white">
      i'm single column
    </div>
    <div class="col-sm-6 col-md-3 col-lg-6 col-xl-3 bg-secondary">
      i'm single column
    </div>
    <div class="col-sm-6 col-md-3 col-lg-6 col-xl-3 bg-primary">
      i'm single column
    </div>
    <div class="col-sm-6 col-md-3 col-lg-6 col-xl-3 bg-warning">
      i'm single column
    </div>
 </div>
</div>
```

Website Responsivo: Bootstrap, Font Awesome, Google Fonts



Website Responsivo: Bootstrap Template Inicial* (I)

```
<!doctype html>
<html lang="en">
<head>
<!-- Required meta tags -->
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-</pre>
to-fit=no">
<!--Bootstrap CSS >
 <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.</pre>
3.1/css/bootstrap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin
="anonymous">
<title>Hello, world!</title>
</head>
1.1.1
```

Website Responsivo: Bootstrap Template Inicial* (II)

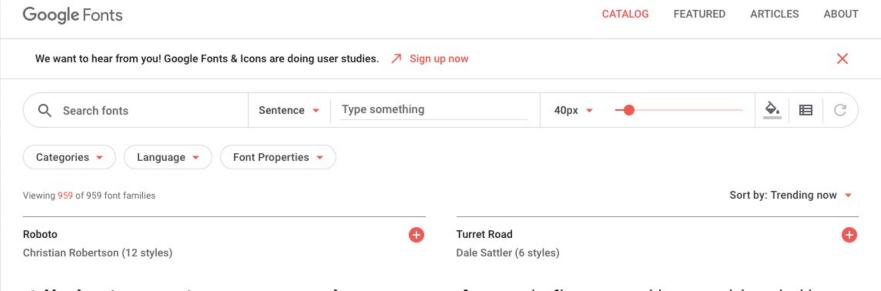
```
<body>
<h1>Hello, world!</h1>
...
<!-- Optional JavaScript -->
<!--jQuery first, then Popper.js, then Bootstrap JS>
<script src="https://code.jquery.com/jquery-</pre>
3.3.1.slim.min.js" integrity="sha384-
q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin
="anonymous"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popp</pre>
er.min.js" integrity="sha384-
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin
"anonymous"></script>
<script src "https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.
         integrity "sha384-
min.is"
JiSmVgyd0p3pXB1rRibZUAYoIIy60r06VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
"anonymous"></script>
</body>
</html>
```

^{*}https://getbootstrap.com/docs/4.3/getting-started/introduction/

Website Responsivo: Google Fonts

```
// head tag
<link
href="https://fonts.googleapis.com/css?family=Gloria+Hallelujah&dis
play=swap" rel="stylesheet">

// main css
body {    font-family: 'Gloria Hallelujah', cursive;}
```

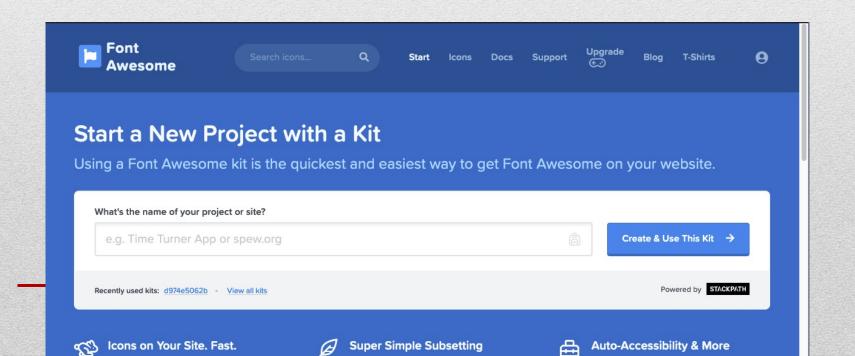


All their equipment and instruments are alive.

A red flare silhouetted the jagged edge of a wing.

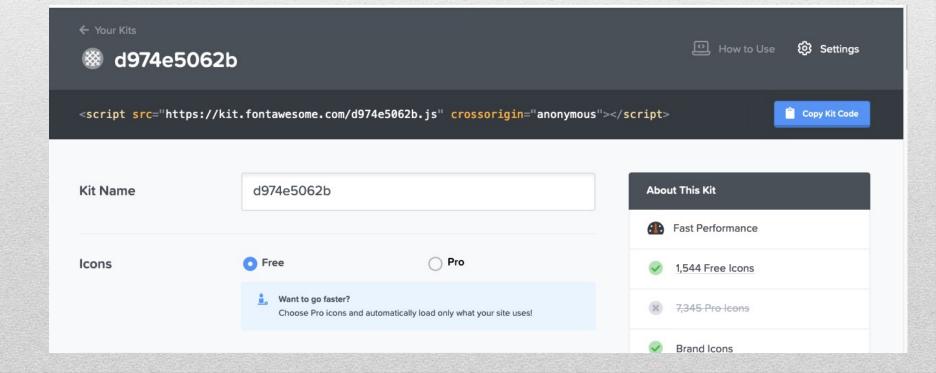
Website Responsivo: Font Awesome (1)

- https://fontawesome.com/
 - Clicar em "Start for free"
 - Começar um projeto com um kit
 - Copiar o link para o <head> do ficheiro .html



Website Responsivo: Font Awesome (2)

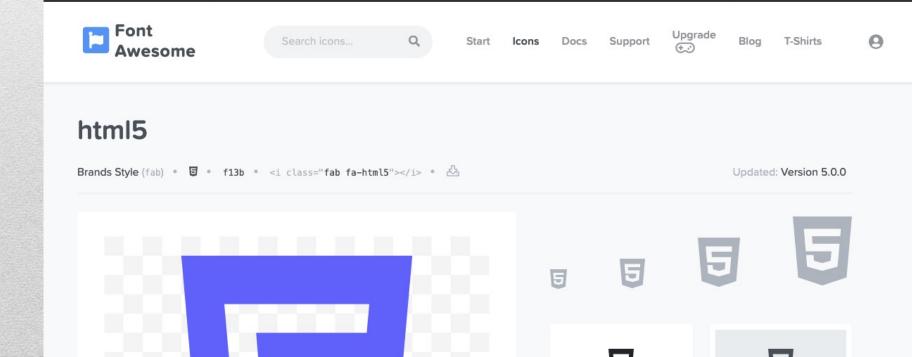
```
// head tag
<script src="https://kit.fontawesome.com/d974e5062b.js"
crossorigin="anonymous"></script>
```



Website Responsivo: Font Awesome (3)

```
// head tag
<script src="https://kit.fontawesome.com/d974e5062b.js"
crossorigin="anonymous"></script>

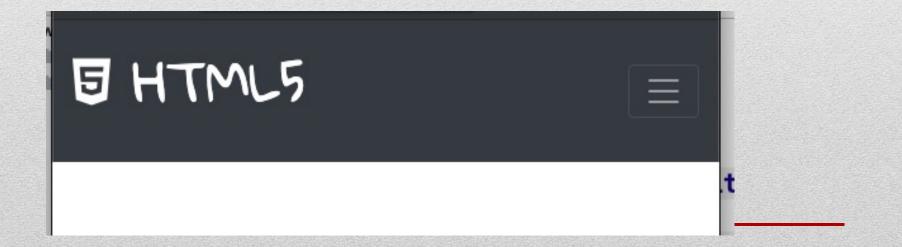
// body tag
<i class="fab fa-html5"></i></i>
```



Website Responsivo: <head>

```
<!-- Required meta tags -->
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1,</pre>
shrink-to-fit=no">
<!-- Bootstrap CSS -->
<link rel="stylesheet"</pre>
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootst
rap.min.css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
<!-- Google fonts CSS -->
link
href="https://fonts.googleapis.com/css?family=Gloria+Hallelujah&dis
play=swap" rel="stylesheet">
<!-- Font Awesome CSS -->
<script src="https://kit.fontawesome.com/d974e5062b.js"</pre>
crossorigin="anonymous"></script>
<!-- My CSS -->
<link rel="stylesheet" href="main.css">
```

Website Responsivo: <nav> (1)



Website Responsivo: <nav> (2)

```
<div class="collapse navbar-collapse" id="navbarLinks">
 <a href="#home" class="nav-link">Home</a> 
  <a href="#unordered" class="nav-link">Unordered</a> 
  <a href="#ordered" class="nav-link">0rdered</a> 
  class="nav-item">
    <a href="#color" class="nav-link">Colors</a> 
  class="nav-item">
    <a href="#image" class="nav-link">Images</a> 
  <a href="#table" class="nav-link">Table</a> 
 </div>
</nav>
```

Website Responsivo: Unordered <section> (1)

Unordered list Tag

The language is made up of a set of codes and symbols that will generate on the browser:

```
> Text;
```

- > Images,
- > Sounds

Website Responsivo: Unordered <section> (2)

Unordered list Tag

The language is made up of a set of codes and symbols that will generate on the browser:

- > Text;
- > Images,
- > Sounds

Website Responsivo: Unordered and Ordered CSS

```
.my-list-elem {
   background: transparent !important;
   border: none !important;
   margin-left: 60px;
}
.list-group-ordered {
   list-style: decimal inside !important;
}
.list-group-item-ordered {
   display: list-item !important;
}
```

Ordered list Tag

The main steps that should be done before starting to implement a website are:

- 1. Start listing the main elements (content) to put in of your a website;
- 2. Organize the elements in pages puting together related elements,
- 3. Create the struture diagram (hyperlinks between pages) of the website;

Website Responsivo: Color < section > (1)

33FF00	33FF33	33FF66	Ė	Color The image shows color codes. Below, Bootstrap colors are ilustrated:
660000	660033	660066	ϵ	
663300	663333	663366	ϵ	
666600	666633	666666	ϵ	Prymary
669900	669933	669966	ϵ	

Website Responsivo: Color < section > (2)

```
<!-- title -->
<div class="row">
 <div class="col text-center">
   <h1 class="text-warning mb-0">
                                        Color </h1>
The image shows color codes. Below, Bootstrap
colors are ilustrated: 
 </div>
</div>
<!-- end of title -->
<!-- single item -->
<div class="d-flex mt-0 ml-5">
<i class="fas fa-check p-2 bg-primary mr-3 align-self-center"></i></i></i>
Prymary</div>
<!-- end of single item -->
```

33FF00	33FF33	33FF66	E	Color
660000	660033	660066	ϵ	The image shows color codes. Below, Bootstrap colors are ilustrated:
663300	663333	663366	ϵ	
666600	666633	666666	ϵ	Prymary
669900	669933	669966	ϵ	

Website Responsivo: Color < section > CSS

```
.height {
    min-height: 50vh;
}
.color-picture {
    background:
url(http://www.theodora.com/gif4/html_colors.gif)center/cover no-repeat fixed;
}
```



Website Responsivo: Images <section>

Images Fluid Images



```
| The control of classes | Security | Control of Contro
```

